(March 13, 1995)

Èmulsified asphalt shall be grade CMS-2M as specified below. Asphalt temperature at the time of introduction to the pugmill shall be between 55 degrees and 70 degrees C.

## CATIONIC EMULSIFIED ASPHALT

## MEDIUM SETTING MIXING GRADE

	TYPE	CMS-2M	
	WSDOT		
Grade	Test Method	Min.	Max.
Tests on Emulsions:			
Viscosity SFS @ 25°C sec	212		
Viscosity SFS @ 50°C sec	212	150	450
Storage stability			
test 1 day %	212		1
Demulsibility 35 mL			
0.8% sodium dioctyl sulfo-			
sucinate, %	212		
Coating ability &	212		
water resistance:			
Coating, dry aggregate	212	Good	
Coating, after spraying	212	Fair	
Coating, wet aggregate	212	Fair	
Coating, wet aggregate  Coating, after spraying	212	Fair	
Particle charge test*	212	Positive	
Sieve test, %	212	1 0311114	0.10
Cement mixing text, %	212		0.10
Cement mixing text, 76	212		
Distillation:			
Oil distillate by vol.			
of emulsions %	212	6	12
Residue, %	212	65	
,			
Tests on residue from			
distillation test:			
Penetration, (25°C.)	201	100	250
Ductility, (25°C.)			
5 cm/min., cm.	213	40	
Solubility in trichloro-			
ethylene, %	214	97.5	
<b>,</b> ,			

\*If the particle charge test in inconclusive, material having a maximum pH value of 6.7 will be acceptable.

The estimated emulsified asphalt content of the mixture for this type of paving is 4.5 to 7.5 percent.

The aggregate shall meet the requirements of the grading specified below:

1	Sieve Designation	Percent Passing	
2	<del></del>		
3	19.0 mm square opening	100	
4	12.5 mm square opening	60-80	
5	6.3 mm square opening	5-35	
6	2.00 mm	0-10	
7	0.075 mm	0-2.0	
8	All percentages are by mass		
9			
10	The composite aggregate shall be free of clay, loam, organic matter, and other		
11	extraneous matter occurring either free or as coating on the particles.		
12			
13	The fracture requirements are at least two fractured faces on 75 percent and at		
14	least one fractured face on 90 percent of the material retained on each sieve, 6.30		
15	mm and above.		
16			

The aggregate shall also meet the following requirements:

- 1. Los Angeles Wear, 500 Rev., 30 percent max.
- 2. Degradation factor 30 min.

Crushed screenings shall be 6.30 mm to 0 in accordance with Section 9-03.4.

Acceptance of the aggregate shall be based on samples taken from the cold feed for continuous mix plants and the final mix for all other plants. The plant mixed material will be subject to acceptance for asphalt content at the time of mixing.

Section 9-03.8(3) is supplemented by the following:

A minimum of fifty percent of the aggregate shall be in stockpile prior to the mixing operation, unless otherwise permitted by the Engineer.